



NETWORKS AND ENGINEERING STANDING COMMITTEE

AGENDA

CHAIR: MATTHEW WILKINSON

CO-CHAIR: GEORG KIRCHNER

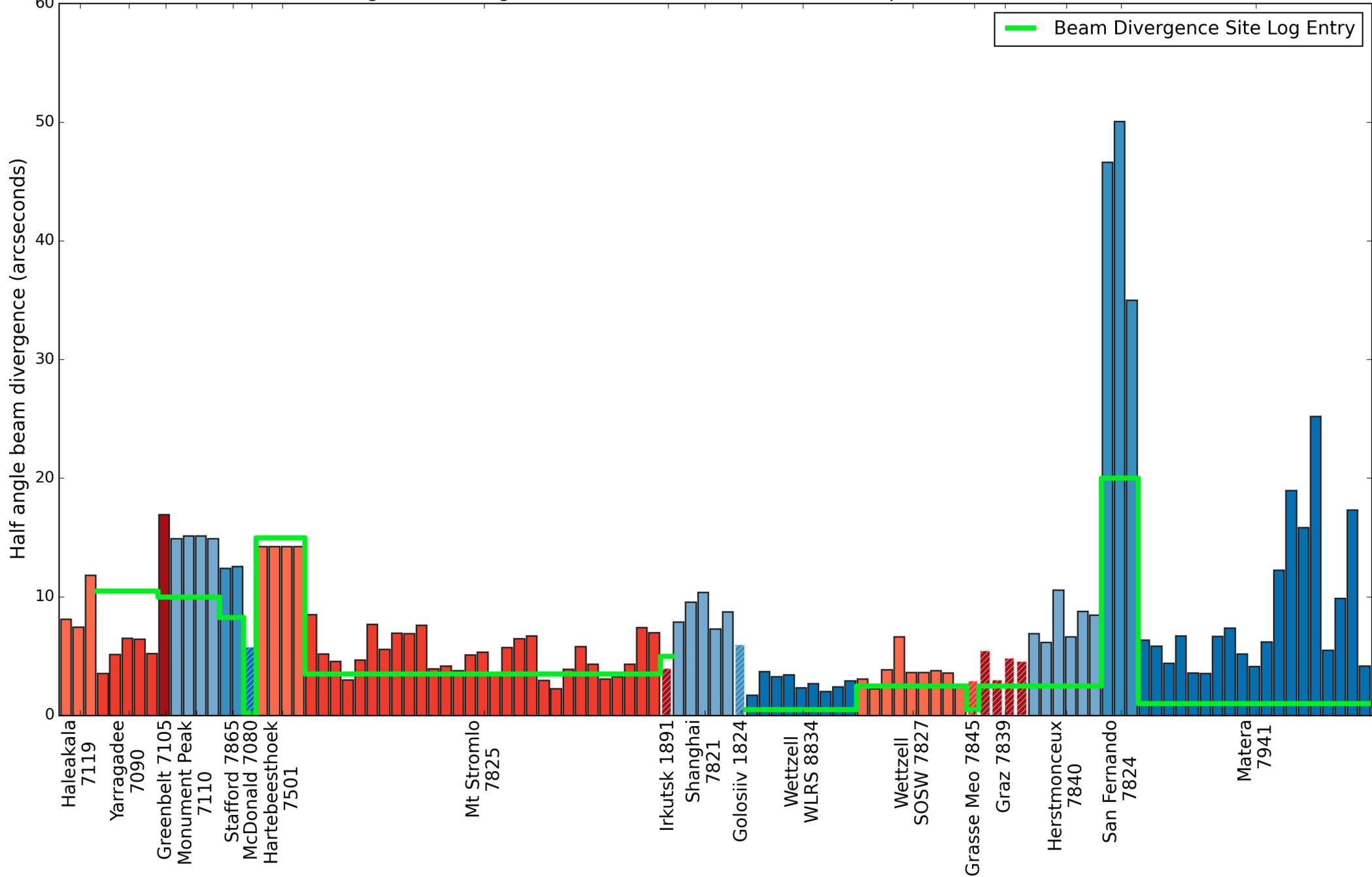
AGENDA

- Beam Divergence Procedure
- NESC Forum
- What stations require to identify and eliminate systematics.
- Site log review
 - Stations Changes File proposal (Christian Schwatke)

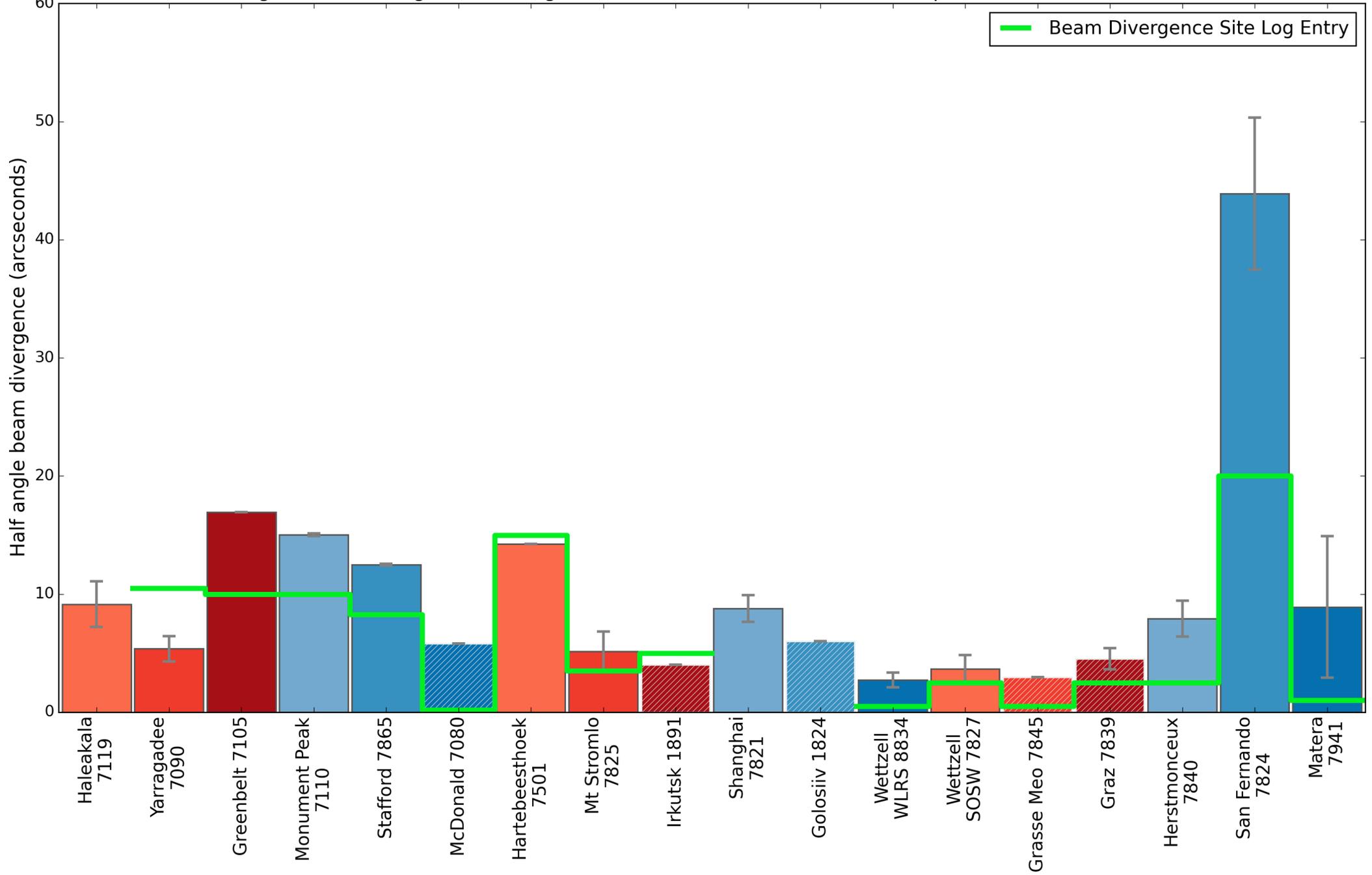
ENERGY DENSITY AT SATELLITE HEIGHTS

- The laser beam divergence is required to estimate laser energy densities incident at satellite heights.
- In the run up to the Workshop ILRS stations have been carrying out the beam divergence measurement procedure.

Beam Divergence half-angles measured at stations with the ILRS procedure and other methods

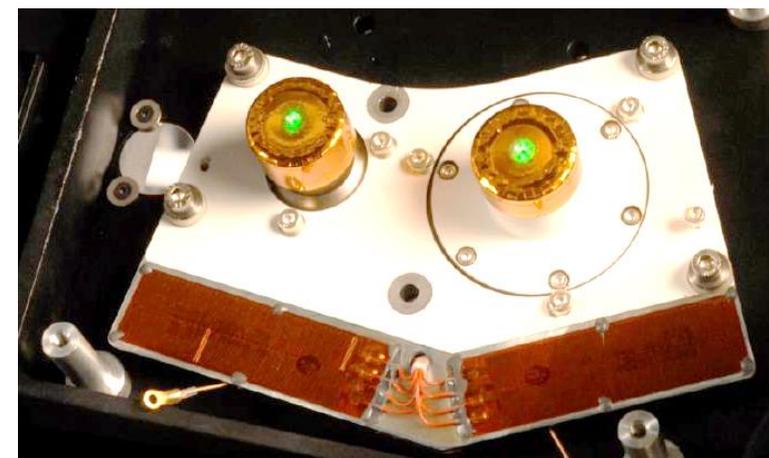


Averaged Beam Divergence half-angles measured at stations with the ILRS procedure and other methods

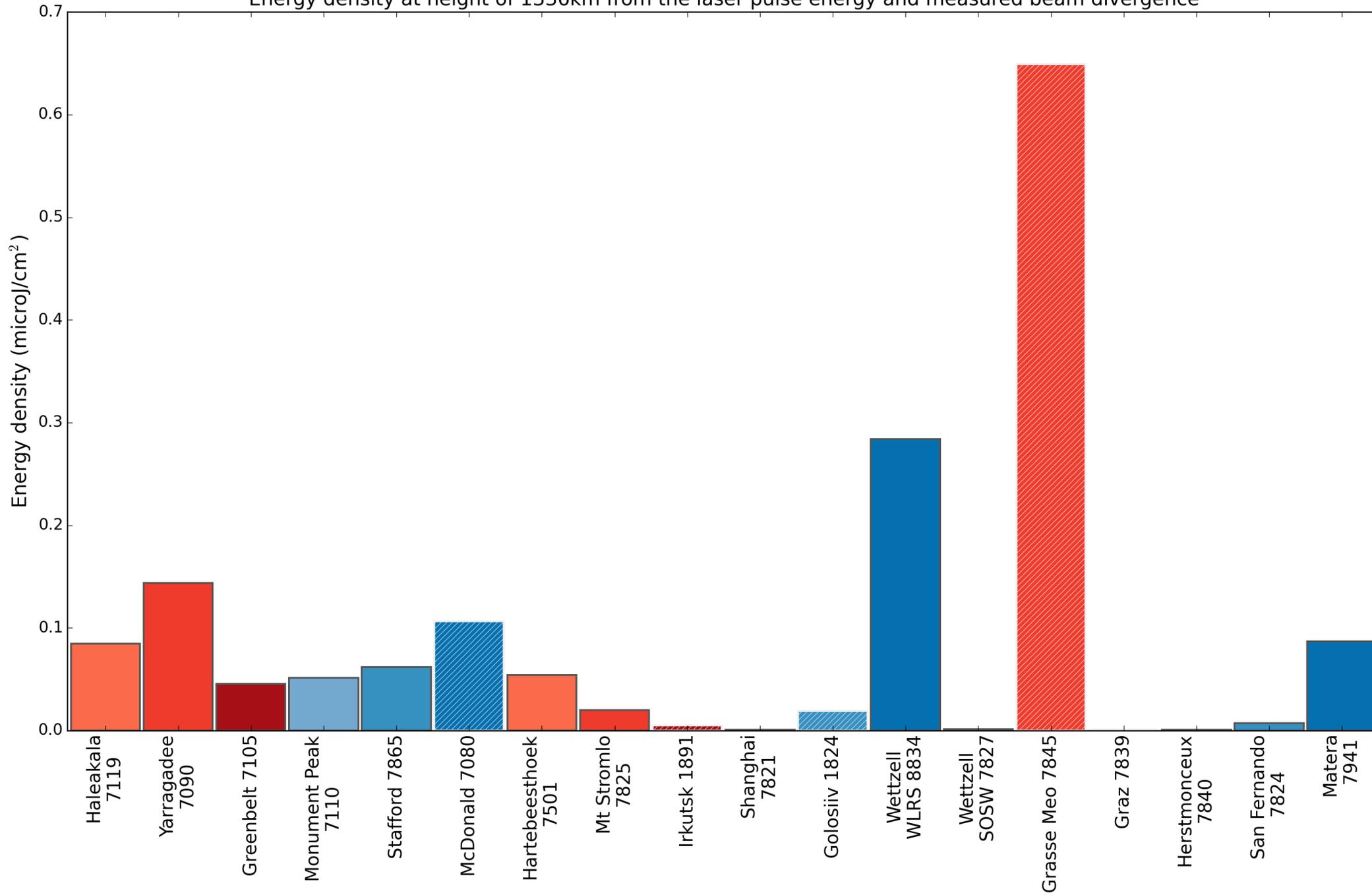


JASON2 ENERGY DENSITIES

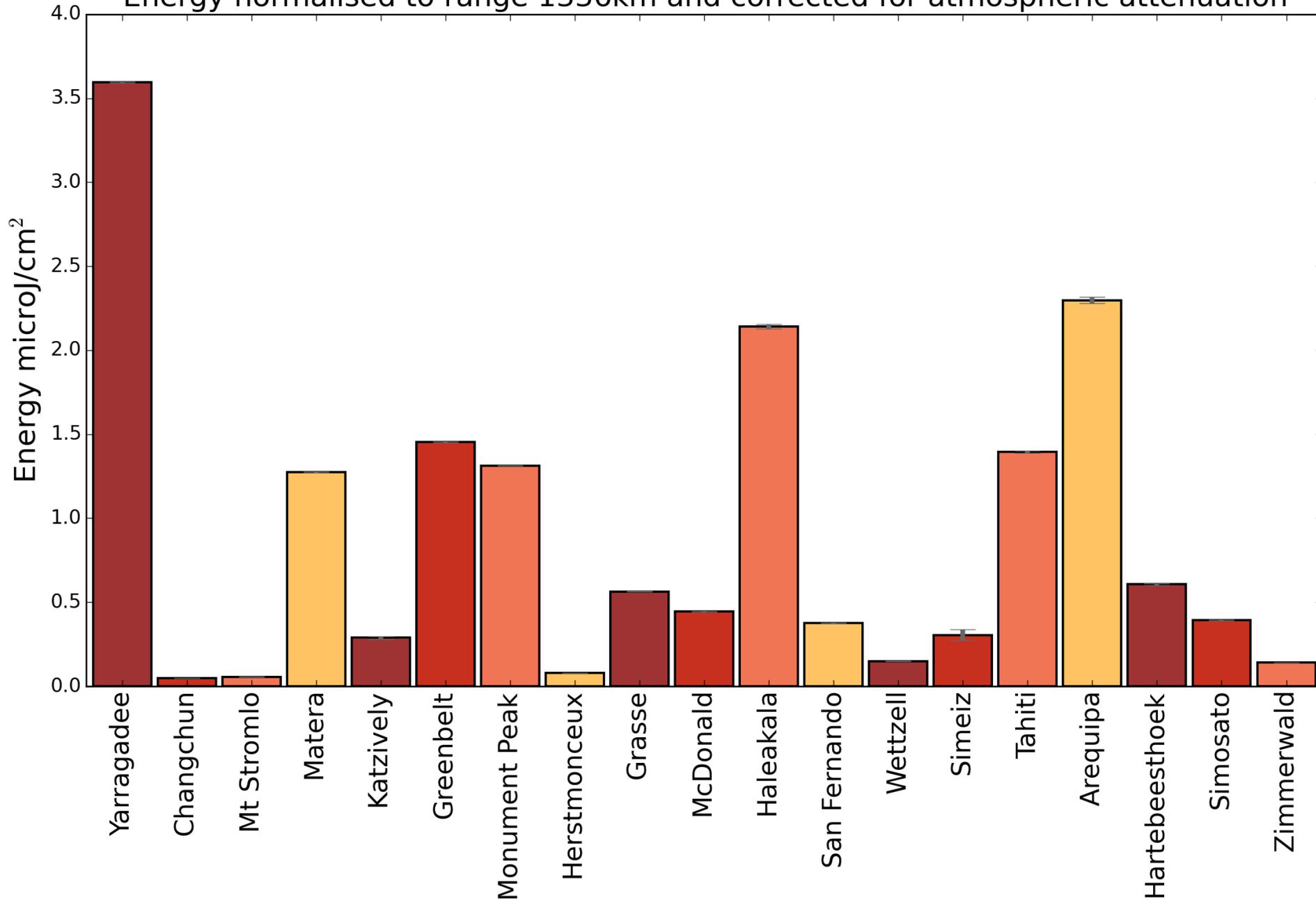
- Using the Site Log laser pulse energy and measured beam divergences, I calculated the energy density at Jason2 height of 1336km.
- Pierre Exertier provided pulse energies recorded at Jason2 for the year 2015.



Energy density at height of 1336km from the laser pulse energy and measured beam divergence



Average Energy of Laser Pulses Detected by Jason2 T2L2 in 2015.
Energy normalised to range 1336km and corrected for atmospheric attenuation



*With thanks to
OCS and CNES
colleagues for
providing this
data.*

ILRS NESC FORUM

- The new NESC forum aims to:
 - Strengthen the connection, communication and collaboration between international colleagues.
 - Exploit the wealth of experience and knowledge in the ILRS network to address problems that are common to multiple stations.



<http://sgf.rgo.ac.uk/forumNESC>